

**Amendments to the Claims**

- 1       Claim 1 (currently amended): A computer-implemented method of programmatically building  
2       queries, comprising steps of:  
3                 programmatically building a query user interface to query a content source, wherein the  
4       query user interface comprises a plurality of query parameters, each query parameter comprising a  
5       unique query parameter name, a query qualifier, and a query parameter value, further comprising:  
6                         dynamically identifying the content source to be queried;  
7                         programmatically determining a plurality of content values specified in the  
8       dynamically-identified content source;  
9                         programmatically determining, based on the specified content values, a plurality of  
10      content types corresponding thereto;  
11                         using at least one of the programmatically-determined content types to consult a  
12      lookup component to obtain at least two query parameter names usable to query the content  
13      source;  
14                         programmatically identifying, for each of the obtained query parameter names, at  
15      least one query qualifier corresponding thereto, each query qualifier usable in determining a match  
16      when comparing selected ones of the content values to that query parameter name;  
17                         programmatically identifying, for each at least one of the obtained query parameter  
18      names, at least one value usable therewith as a query parameter value;  
19                         programmatically building the plurality of query parameters by associating, with  
20      each of the obtained query parameter names, each of the at least one programmatically-identified  
21      at least one query qualifiers qualifier corresponding thereto and each of the at least one

22 programmatically-identified at least one value values usable therewith as a query parameter value;  
23 if any; and

24 displaying on the query user interface, for each of the programmatically-built query  
25 parameters, the obtained query parameter name, a first selector usable to select one of the at least  
26 one query qualifiers corresponding thereto associated therewith, and a second selector usable to  
27 select at least one of the at least one values associated usable therewith; if any, or for providing at  
28 least one user-entered value usable therewith; and

29 enabling a user to build a query command to query the content source by using, for each  
30 of at least one of the displayed query parameter names, the first selector to select one of the  
31 associated query qualifiers and using the second selector to select ~~at least one of (1) at least one~~  
32 of the associated values, if any, or (2) at least one user-entered value.

Claim 2 (canceled)

1 Claim 3 (currently amended): The method according to Claim 1, wherein the using [[step]] ~~at~~  
2 least one of the programmatically-determined content types further comprises using information  
3 regarding the user when consulting the lookup component.

1 Claim 4 (currently amended): The method according to Claim 1, further comprising the step of:  
2 programmatically identifying at least one query extension parameter for the query  
3 command, responsive to a request from the user to extend the display on the query user interface,  
4 further comprising, for each of the at least one query extension parameters:

5                   using at least one of the obtained query parameter names to obtain a related query  
6                   parameter name;  
7                   programmatically identifying at least one query qualifier corresponding to the  
8                   obtained related query parameter name, each query qualifier usable in determining a match when  
9                   comparing selected ones of the content values to the obtained related query parameter name; and  
10                  programmatically building the query extension parameter by associating, with the  
11                  obtained related query parameter name, the programmatically-identified at least one query  
12                  qualifier corresponding thereto; and  
13                  wherein the displaying [[step]] further comprises also displaying each of the at least one  
14                  programmatically-identified query extension parameters as additional ones of the  
15                  programmatically-built query parameters.

Claim 5 (canceled)

1       Claim 6 (currently amended): The method according to Claim 1, wherein the using [[step]] at  
2       least one of the programmatically-determined content types further comprises using information  
3       regarding the content source when consulting the lookup component.

1       Claim 7 (previously presented): The method according to Claim 3, wherein the information  
2       regarding the user comprises at least one of: a role of the user, preferences of the user, a device  
3       used by the user, or an identification of the user.

Claims 8 - 23 (canceled)

1       Claim 24 (currently amended): A computer-implemented system configured to programmatically  
2       build queries, comprising:

3                 a computer comprising a processor; and

4                 instructions which execute using the processor to implement functions comprising:

5                         means for programmatically building a query user interface to query a content  
6       source, wherein the query user interface comprises a plurality of query parameters, each query  
7       parameter comprising a unique query parameter name, a query qualifier, and a query parameter  
8       value, further comprising:

9                         means for dynamically identifying the content source to be queried;

10                         means for programmatically determining a plurality of content values  
11       specified in the dynamically-identified content source;

12                         means for programmatically determining, based on the specified content  
13       values, a plurality of content types corresponding thereto;

14                         means for using at least one of the programmatically-determined content  
15       types to consult a lookup component to obtain at least two query parameter names usable to  
16       query the content source;

17                         means for programmatically identifying, for each of the obtained query  
18       parameter names, at least one query qualifier corresponding thereto, each query qualifier usable in  
19       determining a match when comparing selected ones of the content values to that query parameter  
20       name;

means for programmatically identifying, for each at least one of the obtained query parameter names, at least one value usable therewith as a query parameter value; means for programmatically building the plurality of query parameters by associating, with each of the obtained query parameter names, each of the at least one programmatically-identified-at least one query qualifier qualifiers corresponding thereto and each of the at least one programmatically-identified-at least one value values usable therewith as a query parameter value, if any; and

means for displaying on the query user interface, for each of the programmatically-built query parameters, the obtained query parameter name, a first selector usable to select one of the at least one query qualifiers corresponding thereto associated therewith, and a second selector usable to select at least one of the at least one values usable associated therewith, if any, or for providing at least one user-entered value usable therewith; and means for enabling a user to build a query command to query the content source by using, for each of at least one of the displayed query parameter names, the first selector to select one of the associated query qualifiers and using the second selector to select at least one of: (1) at least one of the associated values, if any, or (2) at least one user-entered value.

Claim 25 (currently amended): A computer program product configured to programmatically build queries, the computer program product embodied on one or more computer-readable storage media and comprising computer-readable program code for: computer-readable program code for programmatically building a query user interface to query a content source, wherein the query user interface comprises a plurality of query

6 parameters, each query parameter comprising a unique query parameter name, a query qualifier,

7 and a query parameter value, further comprising computer-readable program code for:

8                   computer-readable program code for dynamically identifying the content source to

9 be queried;

10                   computer-readable program code for programmatically determining a plurality of

11 content values specified in the dynamically-identified content source;

12                   programmatically determining, based on the specified content values, a plurality of

13 content types corresponding thereto;

14                   computer-readable program code for using at least one of the programmatically-

15 determined content types to consult a lookup component to obtain at least two query parameter

16 names usable to query the content source;

17                   computer-readable program code for programmatically identifying, for each of the

18 obtained query parameter names, at least one query qualifier corresponding thereto, each query

19 qualifier usable in determining a match when comparing selected ones of the content values to

20 that query parameter name;

21                   computer-readable program code for programmatically identifying, for each at

22 least one of the obtained query parameter names, at least one value usable therewith as a query

23 parameter value;

24                   computer-readable program code for programmatically building the plurality of

25 query parameters by associating, with each of the obtained query parameter names, each of the at

26 least one programmatically-identified at least one query qualifier qualifiers corresponding thereto

27 and each of the at least one programmatically-identified at least one value values usable therewith

28 as a query parameter value, if any; and  
29                   computer-readable program code for displaying on the query user interface, for  
30 each of the programmatically-built query parameters, the obtained query parameter name, a first  
31 selector usable to select one of the at least one query qualifiers corresponding thereto associated  
32 therewith, and a second selector usable to select at least one of the at least one values usable  
33 associated therewith, if any, or for providing at least one user-entered value usable therewith; and  
34                   computer-readable program code for enabling a user to build a query command to query  
35 the content source by using, for each of at least one of the displayed query parameter names, the  
36 first selector to select one of the associated query qualifiers and using the second selector to select  
37 at least one of (1) at least one of the associated values, if any, or (2) at least one user-entered  
38 value.